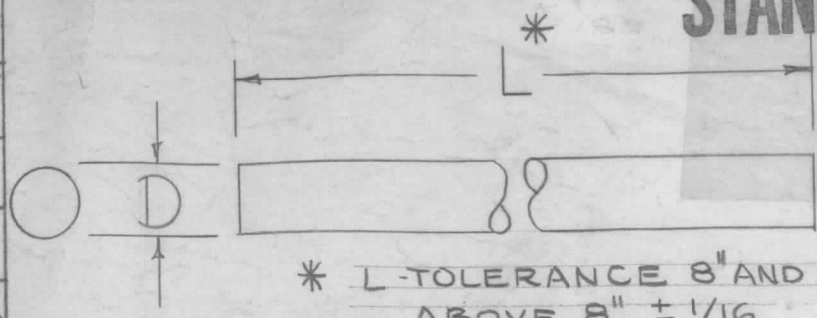


STANDARD DRAWING

PROPERTIES	UNIT	MATERIAL (MAGNETIC PROPERTIES)											
		C	D	E	G	H	H1	I	N	Q1	2	05	4C
INITIAL PERM. @ 1mc/sec	—	250	410	750	410	850	550	900	200	125	40	2400 ⁺	125 ⁺⁺⁺ ±20%
* MAX. PERM.	—	1100	1030	1710	3300	4300	3800	3000	500	400	115	4880	
* SAT. FLUX DENSITY	GAUSS	4200	3100	3800	3200	3400	2800	2000	3000	3300	2400	4700	4100
* RESIDUAL MAG.	GAUSS	2700	1320	1950	1050	1470	1500	700	2300	1800	750	1450	NOT RATED
* COERCIVE FORCE	OERSTED	2.1	1.0	.65	.25	.18	.35	.30	.50	2.1	4.7	0.16	NOT RATED
TEMP. COEF. OF INITIAL PERM.	%/°C	.40	.30	.25	1.3	.66	.80	.30	.14	1.10 MAX.	1.10 MAX.	NOT RATED	NOT RATED
CURIE POINT	+ °C	330	165	160	160	150	125	70	290	350	450	210 ^{°C}	350
VOL. RESISTIVITY	ohm-cm	MED.	HIGH	MED.	HIGH	MED.	MED.	MED.	HIGH	HIGH	HIGH	LOW	HIGH
LOSS FACTOR		1 u00											
AT 1mc/SEC		.00007	.00005	.00008	.00008	.00030	.0004	.0003	.000035	.000020	—	.401 ⁺	
AT 5mc/SEC		.0008	.0012	.0020	.00075	.00155	.0010	.005	.00012	.000050	—	—	—
AT 10mc/SEC.		—	—	—	—	—	—	—	—	—	.000085	—	—
AT 50mc/SEC.		—	—	—	—	—	—	—	—	—	.00017	—	—



* L-TOLERANCE 8" AND BELOW ± 1/8, ABOVE 8" ± 1/16

TYPE DESIGNATION TO BE IN FOLLOWING FORM.

CI-112-Q1-2R5-J
 STYLE CORE LENGTH DIAMETER
 MAT. (SEE CHART)

LETTER R WHEN USED SHALL INDICATE DECIMAL POINT

EXAMPLES

CI-112-Q1-2-J = 2" LENGTH .375 DIA
 CI-112-Q1-3R5-A = 3.5 " .250 "

NOTE:

SEE TMC SPEC. 5600 FOR MAT'L IDENTIFICATION

NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:
 THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK, NEW YORK

ABOVE DATA IS BASED ON NOMINAL VALUES ~
 * MEASUREMENTS MADE ON DC BALLISTIC GALVANOMETER WITH H-MAX = 25 OERSTEDS.

ROD DIAMETER	
LETTER	"D"
A	.250 ± .015
B	.330 ± .020
F	.350 ± .025
J	.375 ± .025
K	.450 ± .030
L	.620 ± .040
M	.945 ± .002

+ ~ MEASURED AT 100 KC/SEC
 +++ - MEASURED AT 2 TO 5 MC

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
G	1	O5 COLUMN ADDED ± MEASURED ETC. ADD.	4/29/64	11312	A.M.	@	jc
F	1	NOTE AND CODE ADDED	1/14/64	10731			
E	1	IN CHART Q, WAS Q	9/27/63	10070			
D	2	± 1/8 Was ± 1/32 on "L"	5-4-62	6671			
D	1	Max. Length Note Deleted					
C	1	M-LENGTH DELETED SAME AS "L"	8/20/59	1229			
B	1	Q2 & M added to charts	5/15/59	2	J.C.B.		
A	1	"L" DIAM. ADDED TO CHART (FOR OPT.)	1/2/59	1	16		

S401-118 4C MATERIAL (56700-104 C)
 S401-206 ALL OTHERS

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFT	CHECK	ENG. APP.
H	3	+++ & * NOTES ADDED	9.				
H	2	4C COLUMN ADDED	2.	12261	hob	@	jc
H	1	5401 NOTES ADD. M ADD	64				

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ±, ANGULAR DIM. ±
 SCALE: MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

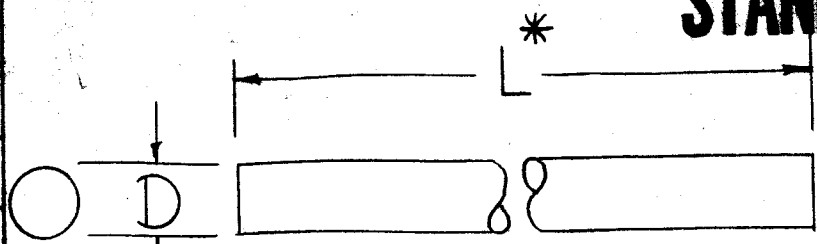
REQ. PER UNIT, MODEL, PROJECT NO., ASS'Y. NO., DATE, USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
—	—	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
—	—	STOCK SIZE	
—	—	CORE, FERRAMIC	
—	—	MATERIAL	
—	—	TYPE & TEMPER	
—	—	HEAT TREAT. SPEC.	
—	—	FINISH & SPEC. NO.	

DRAWN: [Signature]
 CHECKED: [Signature]
 FINAL APPROVAL: A. J. J.
 CI-112

STANDARD DRAWING

MATERIAL (MAGNETIC PROPERTIES)													
PROPERTIES	UNIT	C	D	E	G	H	H1	I	N	Q1	Q5	4C	
INITIAL PERM. @ 1mc/sec	—	250	410	750	410	850	550	900	200	125	40	2400 [†] ±20%	
*MAX. PERM.	—	1100	1630	1710	3300	4300	3800	3000	500	400	115	4880	
*SAT. FLUX DENSITY	GAUSS	4200	3100	3800	3200	3400	2800	2000	3000	3300	2400	4700	4100
*RESIDUAL MAG.	GAUSS	2700	1320	1950	1050	1470	1500	700	2300	1800	750	1450	NOT RATED
*COERCIVE FORCE	OERSTED	2.1	1.0	.65	.25	.18	.35	.30	.50	2.1	4.7	0.16	NOT RATED
TEMP. COEF. OF INITIAL PERM.	%/°C	.40	.30	.25	1.3	.66	.80	.30	.14	1.10 MAX.	.70 MAX.	NOT RATED	NOT RATED
CURIE POINT	+ °C	330	165	160	160	150	125	70	290	350	450	210°C	350
VOL. RESISTIVITY	ohm-cm	MED.	HIGH	MED.	HIGH	MED.	MED.	MED.	HIGH	HIGH	HIGH	LOW	HIGH
LOSS FACTOR													
400													
AT 1mc/SEC		.00007	.00005	.00008	.00008	.00030	.0004	.0003	.000035	.000020	—	.401 [†]	
AT 5mc/SEC		.0008	.0012	.0020	.00075	.00155	.0010	.005	.00012	.000050	—	—	—
AT 10mc/SEC.		—	—	—	—	—	—	—	—	—	.000085	—	—
AT 50mc/sec.		—	—	—	—	—	—	—	—	—	.00017	—	—



* L-TOLERANCE 8" AND BELOW ± 1/8, ABOVE 8" ± 1/16

TYPE DESIGNATION TO BE IN FOLLOWING FORM.

CI-112-Q1-2R5-J
 STYLE CORE LENGTH DIAMETER
 MAT. (SEE CHART)

LETTER R WHEN USED SHALL INDICATE DECIMAL POINT

EXAMPLES

CI-112-Q1-2-J = 2" LENGTH .375 DIA
 CI-112-Q1-3R5-A = 3.5 " .250 "

NOTE:

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ABOVE DATA IS BASED ON NOMINAL VALUES ~
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LETTER	"D"
A	.250 ± .015
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J	.375 ± .025
K	.450 ± .030
L	.620 ± .040
M	.945 ± .002

† ~ MEASURED AT 100 KC/SEC
 ††† ~ MEASURED AT 2 TO 5 MC

REV. ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
G 1	O5 COLUMN ADDED † MEASURED ETC. ADD.	4/29/64	11312	A.M.	@	jc
F 1	NOTE AND CODE ADDED	1/14/64	10731			
E 1	IN CHART Q, WAS Q	9/21/63	10070			
D 2	± 1/8 WAS ± 1/32 ON "L"	5-4-62	6671			
D 1	Max. Length Note Deleted					
C 1	M-LENGTH DELETED SAME AS "L"	8/20/59	1229			
B 1	Q2 & M added to charts	5/16/59	2	JCB.		
A 1	"L" DIAM. ADDED TO CHART (FOR 10K)	1/2/59	1	16		

5401-118 4C MATERIAL (56700-104 C)
 5401-206 ALL OTHERS

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFT	CHECK	ENG. APP.
H	3	††††† NOTES ADDED	9				
	2	4C COLUMN ADDED	2	12261	hbs	@	jc
	1	5401 NOTES ADD. M ADD	64				

TOLERANCES
 DEC. DIM. ±
 FRAG. DIM. ±
 ANGULAR DIM. +

SCALE:
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
 REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT
 PROJECT NO. #
 ASSY. NO.
 USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
—	—	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
—	—	CORE, FERRAMIC	
—	—	CD. 4/1/55	
—	—	DRAWN	CHECKED
—	—	FINAL APPROVAL	
—	—	FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.